14 Channel Personal FRS 2-Way Radio
with Quiet Code

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❗ IMPORTANT ❗

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🖐 — **Caution**   ✍ — **Note**

🖐 CAUTION 🖐

Installing Batteries

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (alkaline or rechargeable), or rechargeable batteries of different capacities.
- If you do not plan to use the radio for a month or longer, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

Recharging Ni-Cd or Ni-MH Batteries

- You must use a Class 2 power source that supplies regulated 6V DC (Not more than 6V) and delivers at least 600mA. Its center tip must be set to positive and its plug must fit the radio's DC 6V jack. Using an adapter that does not meet these specifications could damage the radio or the adapter.
- Always connect the adapter to the radio before you connect it to an external power source (such as an AC outlet or a vehicle cigarette-lighter socket). When you finish, disconnect the adapter from the power source before you disconnect it from the radio.

⚠ WARNING ⚠

- Never install non-rechargeable batteries when **CHARGE ON/OFF** is set to **ON**. Non-rechargeable batteries can get hot or explode if you try to recharge them.
- Dispose of old batteries promptly and properly. Do not burn or bury them.

Family Radio Service (FRS) is a license-free, two-way, short-range voice radio service that lets families and groups keep in touch with each other on specific reserved channels while providing clear communication for up to two miles.

Your RadioShack 14 Channel Personal FRS 2-Way Radio is a lightweight, palm-sized radio you can use to talk with another person who has an FRS radio set to the same frequency as your radio.

Your radio has auto-squelch, so you will not hear anything on a channel unless someone is transmitting nearby on the same channel. You can use **MON** (monitor) to temporarily turn off auto-squelch to hear weaker, distant transmissions.

You can connect an optional speaker/microphone and earphone to the radio (neither supplied, available at your local RadioShack store and online at RadioShack.com).
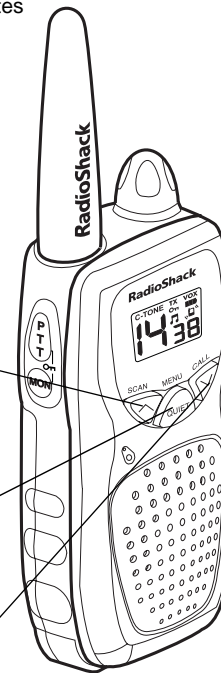
PREPARATION

INSTALLING BATTERIES

Your radio requires four AAA alkaline or rechargeable nickel-cadmium (Ni-Cd) / nickel-metal hydride (Ni-MH) batteries (not supplied) for power. For the best performance and longest life, we recommend RadioShack batteries.🖐

1. Rotate **VOL/OFF** counterclockwise until it clicks to turn off the radio.

2. Pull down the latch on the battery compartment cover, then remove the cover.

3. Slide **CHARGE ON/OFF** inside the battery compartment to **OFF** (for alkaline batteries) or **ON** (for Ni-Cd or Ni-MH rechargeable batteries).

4. Install four AAA batteries according to the polarity symbols (+ and –) marked inside.

5. Replace the cover and push the latch up until it clicks, then rotate **VOL/OFF** clockwise until it clicks to turn on the radio.

The battery icon segments on the display show how much power remains. When ▭▭▸ flashes, replace the alkaline batteries or recharge the Ni-Cd or Ni-MH batteries.

Vibration Alert – vibrates for 2 seconds when receiving a signal if the radio has been idle for more than 30 seconds.

Voice Operated Transmission (VOX) – enables standalone usage and works with a handsfree accessory.

Channel Scan – use to find other FRS users.

38 Quiet Code – eliminates interference from other radios that are not tuned to the same channel and quiet code as your radio.

Call Function — sends a page to other FRS radios set to the same channel.

RECHARGING NI-CD OR NI-MH BATTERIES

The radio's **DC 6V** jack is for charging Ni-Cd or Ni-MH batteries and powering the radio. You can recharge Ni-Cd or Ni-MH batteries inside the radio, using a 6V, 600mA AC or DC adapter and a size F Adaptaplug™ connector (neither supplied, both available at RadioShack).🖐

1. Rotate **VOL/OFF** fully counterclockwise to turn off the radio.

2. Pull down the latch on the battery compartment cover and remove the cover.

3. Set **CHARGE ON/OFF** to **ON**. ⚠

4. Place four Ni-Cd or Ni-MH batteries in the compartment according to the polarity symbols (**+** and **–**) marked inside. Then replace the cover and push the latch up until it clicks.

5. Attach the Adaptaplug to the adapter so TIP reads positive (**+**).

6. Connect the Adaptaplug's other end to the radio's **DC 6V** jack and plug the adapter into a standard AC outlet or a vehicle's power source.

Complete charging takes about 10 hours. ✍ When charging is complete, unplug the AC or DC adapter from the power source, then disconnect it from the radio's **DC 6V** jack. **!**

USING THE SWIVEL BELT CLIP

Insert the swivel belt clip into the socket at the back of the radio until it clicks. To remove the clip, press the button at the top of the belt clip and pull out the clip.

OPERATION

CONTROLS

PTT – Hold down and speak into the microphone to transmit. TX appears. Release to stop transmission. ✍

MON – Hold down to hear everything on a channel, even weak transmissions. Release to turn auto-squelch back on.

VOL/OFF – Rotate to turn the radio on and off and adjust the volume.

∧/**SCAN** – Press to manually select a channel. The selected channel number appears. Hold down for about two seconds to scan through the channels. The radio automatically scans through the channels and pauses on each active channel. To restart scanning when the radio pauses on an active channel, press ∧/**SCAN** again. To stop scanning, press **PTT**. ✍

∨/**CALL** – Press to manually select a channel. The selected channel number appears. Hold down to send a page to other FRS radios set to the same channel. **TX** appears and the call tone sounds. After you hold down ∨/**CALL** for about six seconds, the tone stops.

FRS FREQUENCIES

Channel #	Frequency (MHz)
1	462.5625
2	462.5875
3	462.6125
4	462.6375
5	462.6625
6	462.6875
7	462.7125
8	467.5625
9	467.5875
10	467.6125
11	467.6375
12	467.6625
13	467.6875
14	467.7125

USING KEY LOCK

To lock or unlock ∧/**SCAN**, ∨/**CALL** and **QUIET/MENU**, hold down **MON** then press **PTT**. ⊶ appears when the keys are locked. ✍

USING AN OPTIONAL WRIST STRAP

You can attach an optional wrist strap (not supplied) to the radio. Slide the wrist strap's small loop under the bar at the top of the radio. You might need to use a small screwdriver or a straightened paper clip to do this. Then pull the strap's large loop through the small loop.

QUIET CODES

Quiet Codes lets you talk and listen to other radios set to the same channel and quiet code. This is like having a sub-channel within a channel, giving you greater communication flexibility. When you set a quiet code and turn on this feature, you can communicate with anyone who has a radio set to the same channel and code.

1. Press **QUIET/MENU** until the quiet code number flashes.

2. Repeatedly press ∧/**SCAN** or ∨/**CALL** until you see the code number you want to use. (See the "Quiet Code Chart" for complete list of quiet codes).

3. Press **PTT** to store the code.

4. To turn off the quiet code feature, press **QUIET/MENU** once. The quiet code number disappears.

QUIET CODE CHART

Code	Frequency (Hz)
1	67.0
2	71.9
3	74.4
4	77.0
5	79.7
6	82.5
7	85.4
8	88.5
9	91.5
10	94.8
11	97.4
12	100.0
13	103.5
14	107.2
15	110.9
16	114.8
17	118.8
18	123.0
19	127.3
20	131.8
21	136.5
22	141.3
23	146.2
24	151.4
25	156.7

Code	Frequency (Hz)
26	162.2
27	167.9
28	173.8
29	179.9
30	186.2
31	192.8
32	203.5
33	210.7
34	218.1
35	225.7
36	233.6
37	241.8
38	250.3

USING COURTESY TONE

If the courtesy tone is on, C-TONE appears and the person you are communicating with hears the courtesy tone when you finish transmitting. Hold down QUIET/MENU until C-TONE flashes. On or OFF appears. Repeatedly press ∧/SCAN or ∨/CALL to switch between the on and off settings. Press PTT to store the setting, or the radio stores the displayed setting after 15 seconds.

SETTING THE KEY TONE

You can set the radio so it sounds a tone when you press any key except PTT or MON. Hold down QUIET/MENU until C-TONE flashes. Repeatedly press QUIET/MENU until ♫ flashes. On or OFF appears. Press ∧/SCAN or ∨/CALL to switch between the on and off settings. Press PTT to store the setting, or the radio stores the displayed setting after 15 seconds.

SETTING THE VIBRATION ALERT

You can set the radio to vibrate for two seconds when a signal is received after the radio has been idle for 30 seconds.

Hold down QUIET/MENU until C-TONE flashes. Repeatedly press QUIET/MENU until ∎ flashes. On or OFF appears. Press ∧/SCAN or ∨/CALL to switch between the on and off

CARE

Keep the radio dry; if it gets wet, wipe it dry immediately. Use and store the radio only in normal temperature environments. Handle the radio carefully; do not drop it. Keep the

SERVICE AND REPAIR

If your radio is not performing as it should, take it to your local RadioShack store for assistance. Modifying or tampering with the radio's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it.

settings. Press PTT to store the setting, or the radio stores the displayed setting after 15 seconds.

USING VOICE OPERATED TRANSMISSION (VOX)

Your radio has built-in Voice Operated Transmission (VOX), which allows you to transmit without holding down PTT, by talking through the microphone or using VOX accessories (available at your local RadioShack store).

When you use a VOX accessory, turn off the radio, then insert the VOX headset into the radio's earbud/mic jack and turn on the radio. The VOX function activates automatically, and VOX flashes. The sensitivity level is automatically set to HI if VOX is off before inserting the VOX headset.

1. To adjust the sensitivity, hold down QUIET/MENU until C-TONE flashes, then repeatedly press QUIET/MENU until VOX flashes.

2. Repeatedly press ∧/SCAN or ∨/CALL to set VOX to HI for high sensitivity, or Lo for low sensitivity, or OFF to turn off VOX.

3. Press PTT or QUIET/MENU to store the setting or it will store the displayed setting after 15 seconds of no activity. When VOX is activated, VOX flashes periodically.

4. Speak into the microphone to transmit. TX appears.

5. Press PTT to turn off VOX. VOX stops flashing. Press PTT again to turn on VOX. VOX flashes.

USING THE BACKLIGHT

Your radio's display has a backlight that turns on for approximately 10 seconds when you press any key (except PTT when VOX is disabled). To turn on the backlight without changing any settings, press MON.

radio away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

☞ NOTE ☞

Setting The Vibration Alert
When you turn on the radio, it vibrates, even if the vibration alert is off.

Using Voice Operated Transmission (VOX)
• The VOX sensitivity levels (Hi or Lo) allow you to compensate for background noise. This minimizes the chance of unintended sounds making a transmission.

• VOX is disabled while you are receiving a transmission.

Using the Backlight
You cannot turn on the backlight while the radio is receiving a signal.

FCC INFORMATION

To be safe:

- Never open your radio's case. !
- Never change or replace anything in your radio except the batteries.

Your radio might cause TV or radio interference even when it is operating properly. To determine whether your radio is causing the interference, turn it off. If the interference goes away, your radio is causing it. Try to eliminate the interference by:

- Moving your radio away from the receiver.
- Calling your local RadioShack store for help.

If you cannot eliminate the interference, the FCC requires that you stop using the radio.

This device complies with Part15 of the *FCC Rules*. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the *FCC Rules*. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.

Consult the dealer or an experienced radio/TV technician for help.

SAFETY INFORMATION

Your wireless handheld portable transceiver contains a low power transmitter. When the Push-To-Talk (PTT) button is pressed, it sends out radio frequency signals. The device is authorized to operate at a duty factor not to exceed fifty percent. In August 1996, the Federal Communications Commission adopted RF exposure guidelines with safety levels for handheld wireless devices. ⚡

SPECIFICATIONS

Frequency Range .... 462.5625 – 467.7125MHz

Channels 14

RF Output Power .... 400 – 500mW ERP

Power Supply .... 6.0 VDC (4 × AAA Alkaline)

Battery Life .... 20 hours (alkaline batteries)

Operation Temperature.. −4 to 122 ºF (−20 to 50 ºC)

Dimension (HWD) .... $4^{1}/_{2} \times 2^{3}/_{8} \times 1^{1}/_{3}$ in (115 x 61 × 34mm)

Weight.. 5.1 oz (148g)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.